

RESEARCH DEPARTMENT

KINGUSSIE V.H.F. RELAY STATION: SUMMARY OF INSTALLATION

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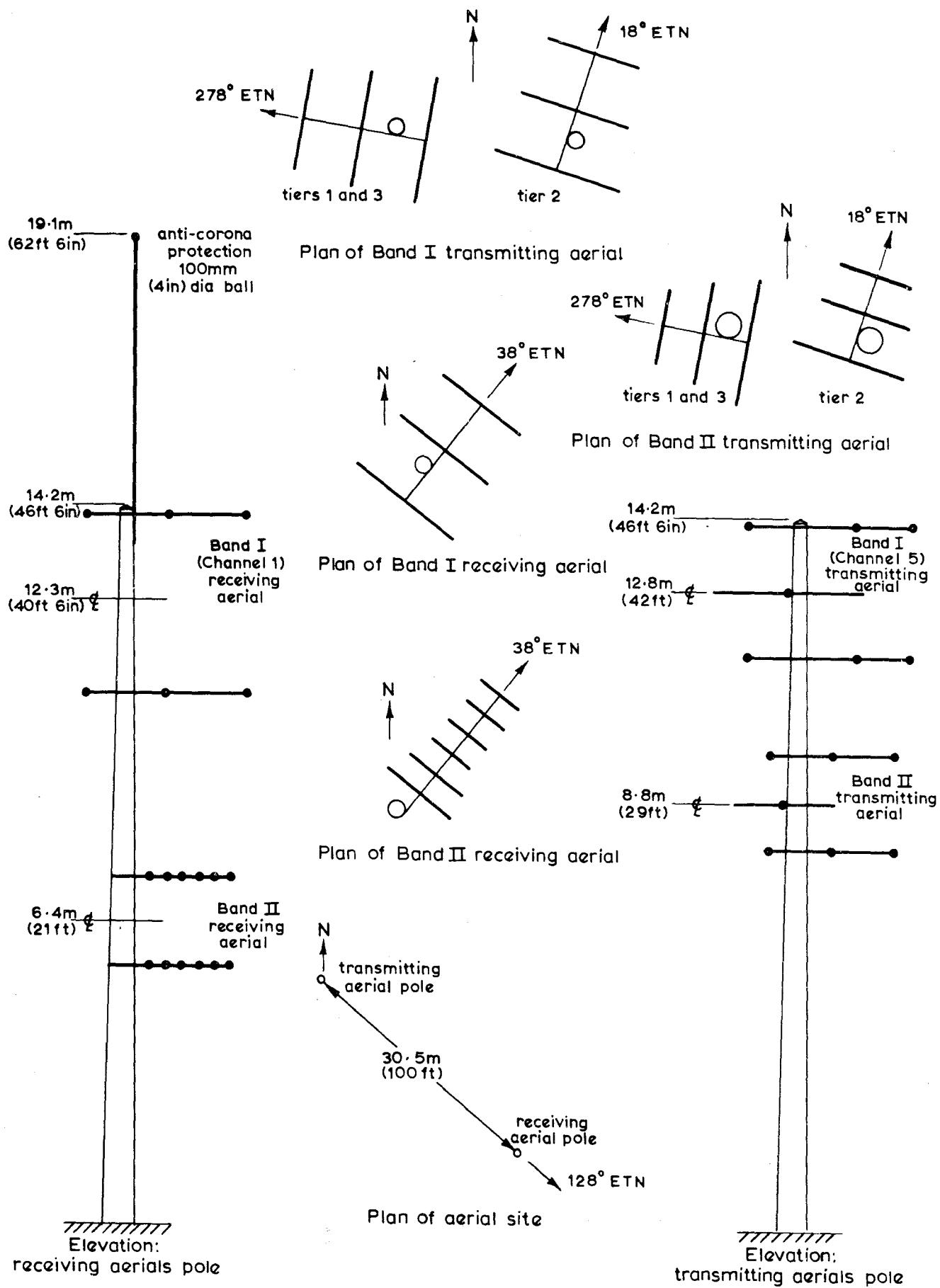


Fig.1. General arrangement of aerials on wooden poles

V.H.F. RELAY STATIONS : SUMMARY OF INSTALLATION
TELEVISION

NAME: KINGUSSIE

SERVICE TRANSMISSIONS COMMENCED: 19th December 1966

SITE DATA

LOCATION: Approximately 2.3 km (1.4 miles)
south-east of Kingussie

GRID REFERENCE: NN 769985

HEIGHT, A.O.D.: 348 m (1140 ft)

TRANSMITTING AERIAL

DESCRIPTION: Single three-element
Yagi per tier

NUMBER OF TIERS: 3

MEAN HEIGHT: 12.8 m (42 ft) a.g.l.

SUPPORT STRUCTURE

TYPE: Wooden poles

OVERALL HEIGHT: 14.2 m (46 ft 6 in)

FEEDERS

TRANSMITTING: RPC 2603

GENERAL ARRANGEMENT

FIGURE: 1

RADIATION CHARACTERISTICS

POLARIZATION: Horizontal

MEAN E.R.P.: 8.7W

FREQUENCIES

BAND: I

CHANNEL: 5

VISION CARRIER OFFSET: -6.75 kHz

SOUND CARRIER OFFSET: -20.0 kHz

MAXIMUM E.R.P.: 35W

H.R.P.: Fig.2

TRANSMITTER

POWER: 10 watts (translator)

PROGRAMME SOURCE

PARENT: Grantown
obtained by direct reception

NOTES:

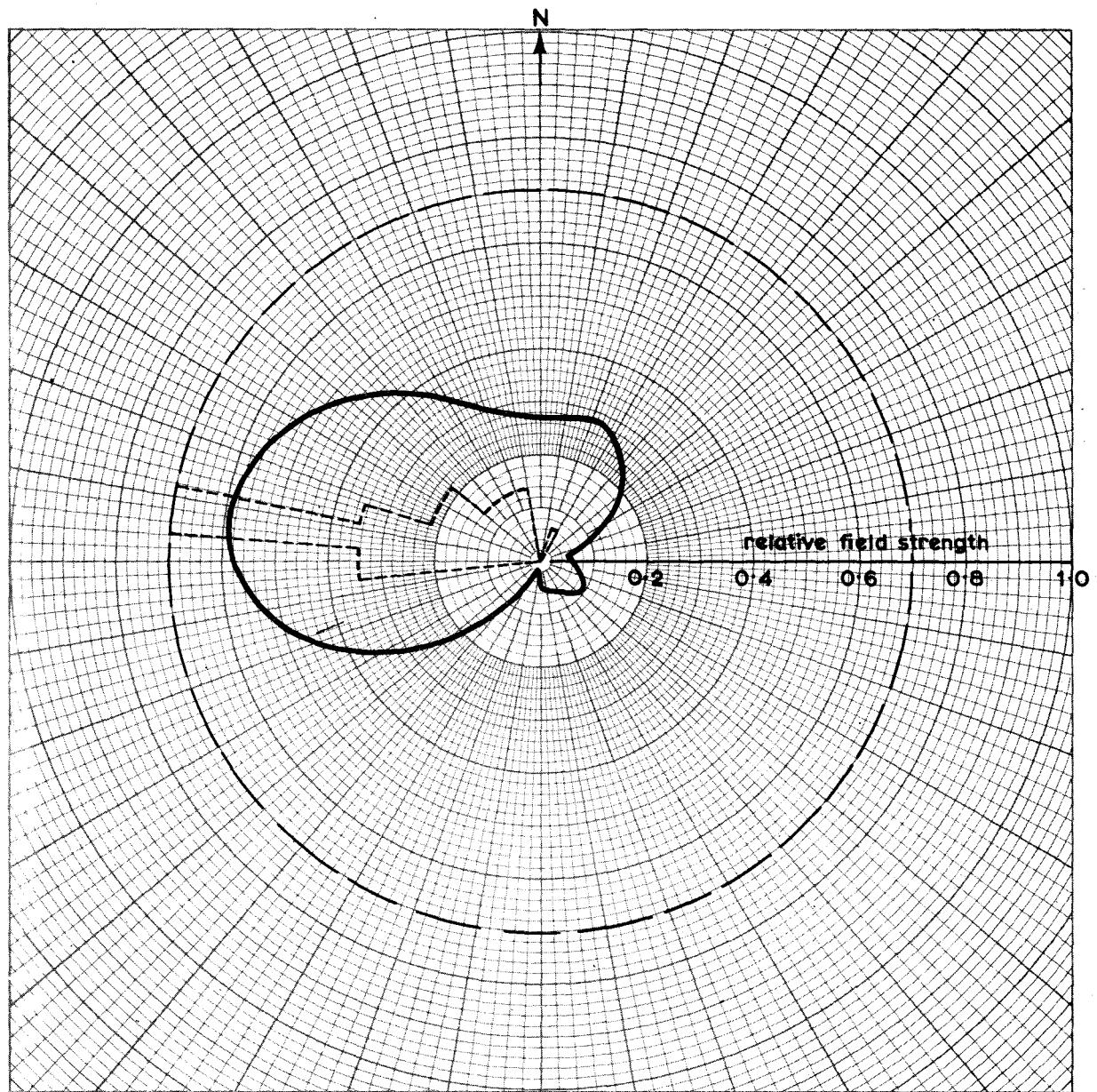


Fig. 2. Band I templet and horizontal radiation pattern

— Maximum permissible E.R.P.
- - - - Minimum desirable E.R.P.
Unit field corresponds to an E.R.P. of 100W

V.H.F. RELAY STATIONS : SUMMARY OF INSTALLATION
SOUND

NAME: **KINGUSSIE**

SERVICE TRANSMISSIONS COMMENCED: **19th December 1966**

BAND II FREQUENCIES

RADIO 2: **89.1 MHz**

RADIO 3: **91.3 MHz**

RADIO 4: **93.5 MHz**

RADIATION CHARACTERISTICS

POLARIZATION: **Horizontal**

MEAN E.R.P.: **8.1W**

MAXIMUM E.R.P.: **31W**

TRANSMITTER

POWER: **10 watts (translator)**

H.R.P.: **Fig.3**

TRANSMITTING AERIAL

DESCRIPTION: **Single three-element Yagi
per tier**

PROGRAMME SOURCE

PARENT: **Grantown**

obtained by direct reception

NUMBER OF TIERS: **3**

MEAN HEIGHT: **8.8 m (29 ft) a.g.l.**

FEEDERS

TRANSMITTING: **RPC 2603**

NOTES:

1. Detailed information is given on the following drawings held by BBC Transmitter Planning and Installation Department:
PID 9738.2.1A4 General Arrangement of Transmitting Aerials on 55 ft Wooden Pole
PID 9738.2.2A4 General Arrangement of Receiving Aerials on 55 ft Wooden Pole
PID 8732.2.4A2 Band I Yagi, Type 353P
PID 8732.2.7A2 Band II Yagi, Type 353P

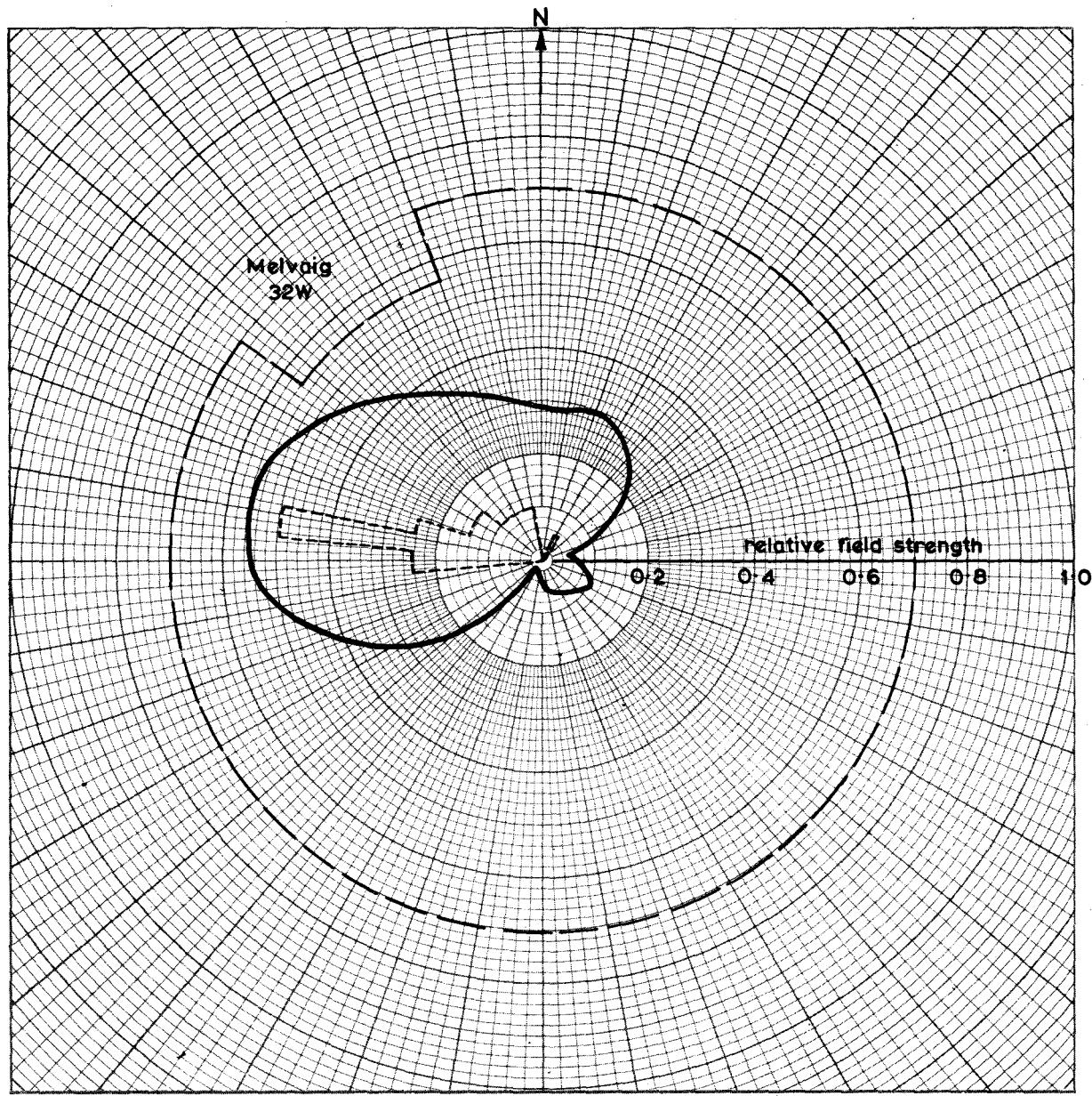


Fig. 3. Band II templet and horizontal radiation pattern

— Maximum permissible E.R.P.

- - - - Minimum desirable E.R.P.

Unit field corresponds to an E.R.P. of 100W